

INTERNATIONAL SEARCH REPORT

10/530362
Rec'd PCT/PTO 04 APR 2005

International Application No

PC 1 / GB 03/04437

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 F16K7/18 F16K31/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F16K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 1 498 178 A (ENGLISH ELECTRIC VALVE CO LTD) 18 January 1978 (1978-01-18) page 1, line 86 -page 2, line 54; figures	1,2
Y	---	3-5
Y	US 5 343 894 A (FRISCH HERBERT ET AL) 6 September 1994 (1994-09-06) figure 1	3-5
X	EP 0 794 370 A (SIEMENS ELEMA AB) 10 September 1997 (1997-09-10) column 2, paragraph 10 -column 4, paragraph 19; figure 1	1,2
X	EP 0 915 277 A (BUERKERT WERKE GMBH & CO) 12 May 1999 (1999-05-12) column 3, paragraph 13 -column 4, paragraph 15; figure 1	1,2
	--- -/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

* & * document member of the same patent family

Date of the actual completion of the international search

4 February 2004

Date of mailing of the international search report

17/02/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Rusanu, I

INTERNATIONAL SEARCH REPORT

In International Application No
PCT/GB 03/04437

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 24 36 499 A (FESTO MASCHF STOLL G) 12 February 1976 (1976-02-12) page 14, paragraph 2; figure 1	1
A	---	4,5
X	BE 1 004 094 A (GETTERS SPA) 22 September 1992 (1992-09-22) page 3, line 8 -page 5, line 17; figures 1,2	1
X	---	
X	US 5 020 567 A (PROULX SERGE L) 4 June 1991 (1991-06-04) figure 1	1
X	---	
X	US 4 621 945 A (SCHAFER CHARLES J ET AL) 11 November 1986 (1986-11-11) figure 1	1
X	---	
X	US 3 951 168 A (ROBERTS BOB R) 20 April 1976 (1976-04-20) figure 1	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PC1/GB 03/04437

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
GB 1498178	A	18-01-1978	NONE	
US 5343894	A	06-09-1994	AT 396392 B AT 196291 A DE 59204426 D1 EP 0538236 A1 ES 2079842 T3 JP 3160091 B2 JP 5196162 A	25-08-1993 15-12-1992 04-01-1996 21-04-1993 16-01-1996 23-04-2001 06-08-1993
EP 0794370	A	10-09-1997	SE 504403 C2 DE 69706342 D1 DE 69706342 T2 EP 0794370 A1 JP 9329252 A SE 9600913 A US 6003836 A	03-02-1997 04-10-2001 20-06-2002 10-09-1997 22-12-1997 03-02-1997 21-12-1999
EP 0915277	A	12-05-1999	DE 29718306 U1 EP 0915277 A2	22-01-1998 12-05-1999
DE 2436499	A	12-02-1976	DE 2436499 A1	12-02-1976
BE 1004094	A	22-09-1992	IT 1237943 B BE 1004094 A6	19-06-1993 22-09-1992
US 5020567	A	04-06-1991	CA 2022928 A1	09-02-1992
US 4621945	A	11-11-1986	NONE	
US 3951168	A	20-04-1976	NONE	